

DISHWASHER

**Use and Care
Manual**

**Free Cookbook Sampler
Offer Inside**

Caloric
A Raytheon Company
DUS/DCS (400 Series)

WARRANTY

"S" SERIES DISHWASHERS — LIMITED APPLIANCE PARTS WARRANTY

PARTS WARRANTY

Subject to certain but necessary WARRANTY LIMITATIONS LISTED BELOW, Caloric warrants all PARTS of this Caloric appliance against defects in material and workmanship for a period of one (1) year from the date of its delivery. Any replacement parts furnished at no cost to the purchaser in fulfillment of this warranty are warranted only for the unexpired portion of the original warranty. Caloric's appliance parts warranty pertains only to the PARTS of the appliance, not the labor required for repair or replacement, which is the responsibility of the source from whom this appliance was purchased.

EXTENDED FINISH WARRANTY

As a special extension of its PARTS WARRANTY, Caloric warrants the TUB and INNER DOOR PANEL of this Caloric dishwasher against WATER LEAKAGE, AS A RESULT OR FAILURE OF THE BASE METAL THROUGH RUST OR CORROSION, for a period of ten (10) years from the date of its delivery. Any replacement TUB or INNER DOOR PANEL furnished at no cost to the purchaser in fulfillment of this warranty is warranted only for the unexpired portion of the original warranty. Caloric's EXTENDED FINISH warranty pertains only to the TUB and INNER DOOR PANEL of the dishwasher and does not pertain to any other part of the same dishwasher or the total appliance.

WARRANTY SERVICE

The selling dealer, builder, or utility from whom this appliance was purchased is responsible for advising the purchaser of the period of no-charge warranty service labor coverage, and how and from whom warranty service is available. Replacement parts under the terms of this warranty must be furnished by a franchised Caloric dealer or authorized Caloric service agency.

EXTENDED WARRANTY LABOR ALLOWANCE

During the SECOND through TENTH years, measured from the date of delivery, Caloric will provide a service labor allowance of \$30.00 for TUB replacement and \$6.00 for INNER DOOR PANEL replacement to the franchised Caloric dealer or authorized Caloric service agency making said replacements.

WARRANTY LIMITATIONS

Caloric's product warranty DOES NOT apply to glass parts, light bulbs, or fluorescent lamps. We warrant only that these will be commercially acceptable at the time of delivery and allow you 30 days to report any malfunctions to the selling agency from whom the appliance was purchased or the authorized service agency as advised by your selling agency.

Except as provided elsewhere in this warranty agreement, Caloric's product warranty DOES NOT apply to the porcelain enamel surfaces, ceramic surfaces, painted surfaces, and decorative finishes, nor does it cover normal deterioration of finishes, bright metal and other trim. We warrant that all of these surfaces and finishes will be commercially acceptable at the time of delivery and allow you ninety (90) days from the date of purchase to report otherwise.

OWNERSHIP

The appliance PARTS warranty remains in force for one year, and the EXTENDED FINISH warranty for ten (10) years, from the initial delivery of the dishwasher, and continues in force even if relocated by the first or subsequent purchaser(s).

WARRANTY CONDITIONS

Caloric's appliance PARTS warranty DOES NOT apply to any appliance which has been subjected to alteration, misuse, abuse, accident, improper installation, delivery damage, or other than normal household use and service.

Caloric's PARTS warranty is LIMITED STRICTLY to the terms indicated herein, and no other expressed warranties or remedies thereunder shall be binding on us. TO THE EXTENT CONSISTENT WITH STATE AND FEDERAL LAWS: (1) ANY IMPLIED WARRANTIES SHALL BE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR CALORIC'S EXPRESSED WARRANTIES, AND (2) CALORIC SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES UNDER ANY EXPRESSED OR IMPLIED WARRANTIES RELATING TO THE CALORIC APPLIANCE.

Caloric's warranty obligation on appliances located outside the contiguous 48 U.S. states and the District of Columbia shall be LIMITED STRICTLY to furnishing replacement parts and shall EXCLUDE service labor.

FEDERAL REGULATORY PROVISIONS

Some states do not allow limitations on how long an implied warranty lasts nor limitations or exclusions of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, as well as rights under Federal Laws.

PURCHASER'S RESPONSIBILITIES

The purchaser will be responsible for the costs of any service calls requested to demonstrate or confirm the proper operation of the appliance, to correct an improper installation that the purchaser may have performed, or to correct malfunctions in the appliance created by operation of the appliance in a manner not prescribed by, or cautioned against, in the Caloric Use and Care Instructions.

PURCHASE REGISTRATION CARD

The purchaser should fill out and mail to Caloric the purchase registration card included with the appliance. This will help Caloric expedite any future communications regarding the appliance. Your warranty rights are conditioned upon the return of the Purchase Registration Card.

MODEL AND SERIAL NUMBERS

The appliance model number and serial number can be found on a nameplate attached to the appliance. The purchaser should always use the model number and serial number when talking to or writing to the dealer, builder, or utility from whom this appliance was purchased, the local authorized service agency, or Caloric.

FACTORY ASSISTANCE

If the purchaser is unable to locate an authorized service agency, or if the purchaser does not receive satisfaction from the source from whom the appliance was purchased, or from the local servicing dealer or agency, write to: Caloric Corporation, Consumer Relations Department, Topton, Pennsylvania 19562-1499, or call AC215-682-4211.

Caloric

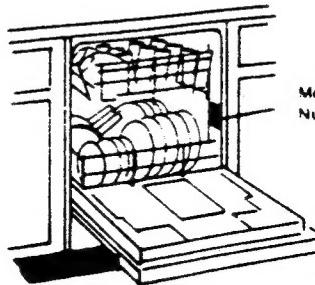
A Raytheon Company

Dear Customer

Please take a few minutes to read this book. It contains information and suggestions to help you get the best results from your dishwasher. The model you have selected may not have all the features illustrated.

If you ever have a problem, please check the Common Dishwashing Problems and Solutions section of this book. It lists many minor problems and solutions you can correct yourself.

Fill in the information requested below and retain for future reference.



Model No. _____

Serial No. _____

Date of Purchase _____

FREE "Pennsylvania Dutch Cooking Sampler"

Simply return the warranty registration card below (postage prepaid), and we will forward our new Pennsylvania Dutch Cooking Sampler to you absolutely FREE. Our sampler contains many famous Dutch recipes.

Offer valid while supplies last so send for your free sampler TODAY!

NAME _____

MODEL _____

ADDRESS _____

SERIAL _____

CITY _____ STATE _____

DATE OF INSTALLATION _____

ZIP _____

DEALER NAME _____

ADDRESS _____

CITY _____ STATE _____

ZIP _____

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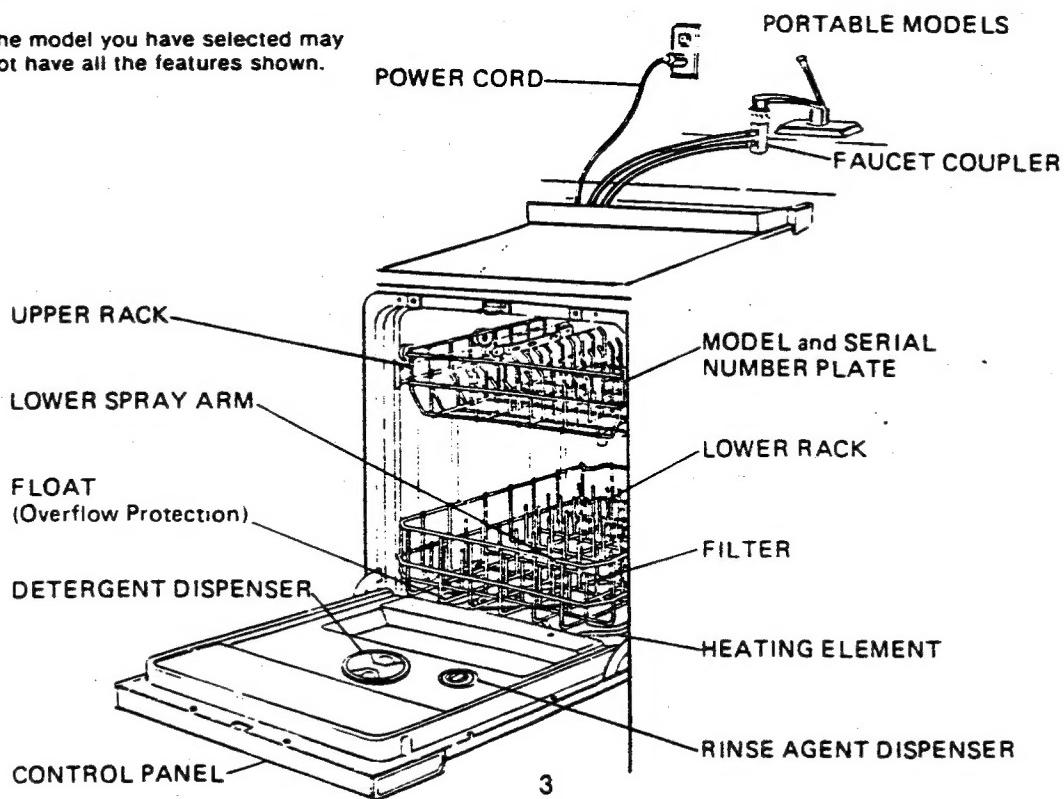
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About Your Dishwasher

Your dishwasher cleans by spraying a mixture of hot, clean water and detergent against soiled surfaces of dishes. When a cycle starts, the dishwasher fills with water to a level slightly above the heating element. This water is constantly pumped through the rotating spray arm and center wash tower onto the dishes. Soiled water is pumped out and replaced with clean water during a cycle. The number of times depends on the cycle being used.

Important Parts and Features of your Dishwasher

The model you have selected may not have all the features shown.



Important Safety Instructions

WARNING: Please follow basic precautions, including the following:

Read all instructions before using the dishwasher.

Use ONLY detergents and wetting agents recommended for use in a dishwasher. Store them in a cool, dry place OUT OF CHILDREN'S REACH.

DO NOT tamper with controls.

DO NOT operate your dishwasher unless all enclosure panels are properly in place.

ALWAYS disconnect electrical power to the dishwasher before attempting to service.

DO NOT allow children to play in or on the dishwasher.

DO NOT sit or stand on or abuse the dishwasher door or dishracks.

DO NOT reach into the area below the lower rack until the heating element has time to cool.

Load sharp or pointed tableware with handles up (points down) to avoid injury when reaching into the dishwasher.

Load sharp items and knives so they won't damage the door seal.

DO NOT wash plastic items unless marked "Dishwasher Safe" or the equivalent. If not marked, check manufacturer's recommendations.

When discarding an old dishwasher, ALWAYS remove the door to prevent accidental entrapment.

REMEMBER, use your dishwasher only for its intended function.

WARNING: Under certain conditions, hydrogen gas may build up in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. To prevent injury or damage, before using your dishwasher, turn on all hot water faucets and allow water to run for several minutes. This will allow gases to escape. DO NOT smoke or use any open flame near the faucets while they are open.

GROUNDING INSTRUCTIONS

BUILT-IN

See the Installation Instructions provided with the machine for important grounding instructions.

PORTABLE

This appliance must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances.

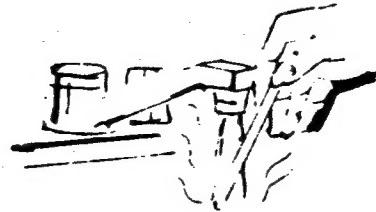
DANGER — Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance; if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

SAVE THESE INSTRUCTIONS

For Best Results

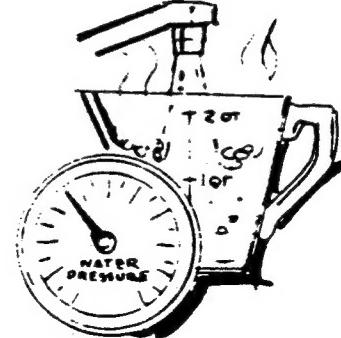
Water Temperature

For best cleaning and drying results, water should be at least 140°F. (60°C.). You can check the temperature of hot water at your sink with a candy or meat thermometer. Turn on the faucet nearest the dishwasher. Let the water run until it is as hot as possible, then insert the thermometer into the stream of water. If the thermometer reading is below 140°F., have a qualified person raise your water heater thermostat setting.



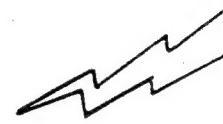
Water Pressure

Water pressure should be between 15 and 120 pounds per square inch. To determine if you have enough pressure, put a $\frac{1}{2}$ gallon container under the fully opened hot water faucet nearest the dishwasher. It should be full in less than 14 seconds. Be sure all other faucets are shut off during this test.



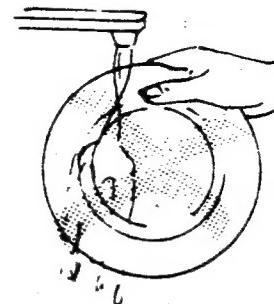
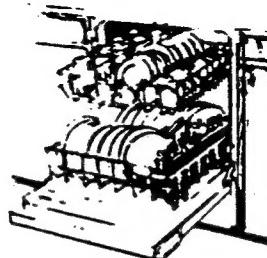
Electrical Supply

Your dishwasher should be connected to its own separate, grounded circuit. It needs a 15 ampere fuse or circuit breaker protection. If there are other outlets on the dishwasher circuit, do not use them while the machine is operating — you may blow the fuse or trip the breaker.



Energy and Water Saving Tips

- **Wash full loads.** Running a half-filled dishwasher uses the same amount of electricity and hot water as a fully-loaded machine.
- **Use the SHORT WASH cycle** for lightly soiled loads. It uses less hot water and energy than NORMAL WASH.
- **COOL DRY** dishes when you don't need a rapid drying cycle. Allow longer drying time (overnight).
- **Load correctly** for best washing results. Incorrect loading may cause poor washing and the need to rewash all or part of the load.
- **Don't pre-rinse normally soiled dishes.** Using the NORMAL WASH cycle with the recommended amount of detergent and proper loading will provide good washing results without hand rinsing.
- **Operate your dishwasher during off-peak hours.** Local utilities recommend this to avoid heavy usage of energy at certain times of day.



Loading Your Dishwasher

It is not necessary to rinse dishes before putting them into the dishwasher. Just remove large pieces and quantities of food and bones. Empty cups and glasses. It may be necessary to pre-soak or lightly scour firmly cooked-on or baked-on foods.

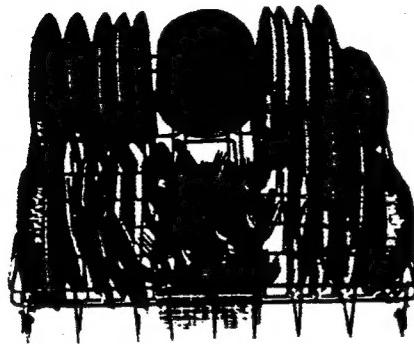
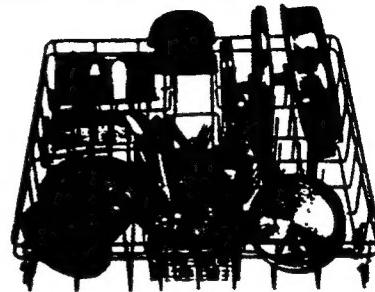
Always load dishes so soiled surfaces are reached by water spray from rotating spray arm or the center wash tower. Water must be able to drain off completely for best results. Spray should reach all surfaces of the dishes.

Following are illustrations of different styles of racks — each showing two variations for loading. Find the rack for your dishwasher for loading examples and precautions.

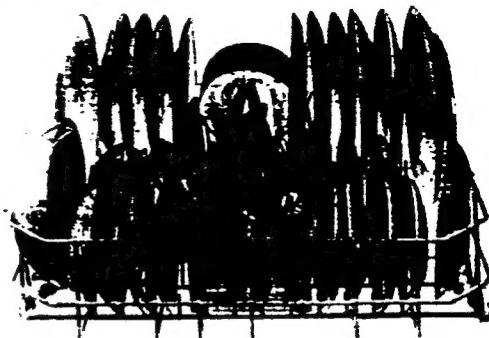
Lower Rack

- Make sure pot handles and other items do not stop rotation of the lower spray arm or block the center wash tower from extending upward.
- Items with cooked-on or dried-on foods should be loaded in the lower rack with soiled surfaces facing the spray.
- Load cookie sheets, cake pans and other large items at the sides. Do not place them across the front where they will prevent water from reaching the detergent dispenser.
- Place plates, soup bowls, etc. between prongs and facing the spray.

Standard Tower Rack

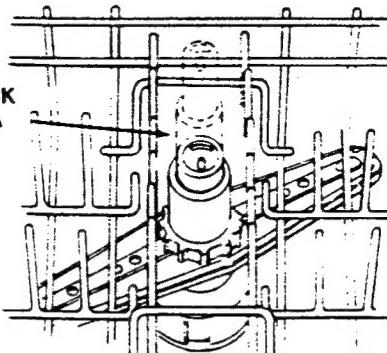


Extended Tower Rack



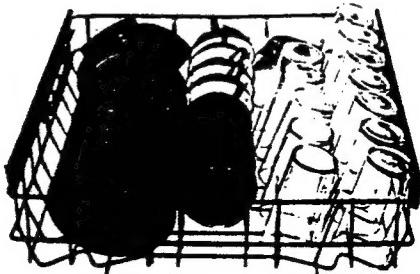
NOTE: Do not block the center area of the lower rack when loading. The center wash tower extends through this area. Blockage may result in poor cleaning.

DO NOT BLOCK
CENTER AREA

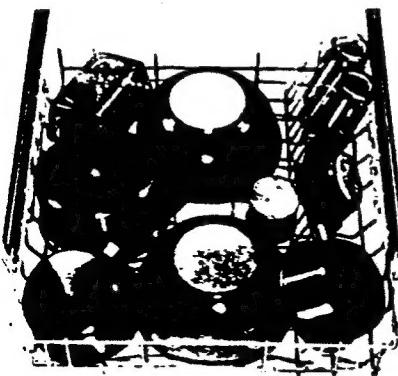


Upper Rack

- Load plastic items in the upper rack only. Plastic items may melt in the lower rack. Only items marked "dishwasher safe" are recommended.
- Be sure lightweight items are held firmly in place.
- Small bowls, pans and other utensils can be placed in the upper rack.

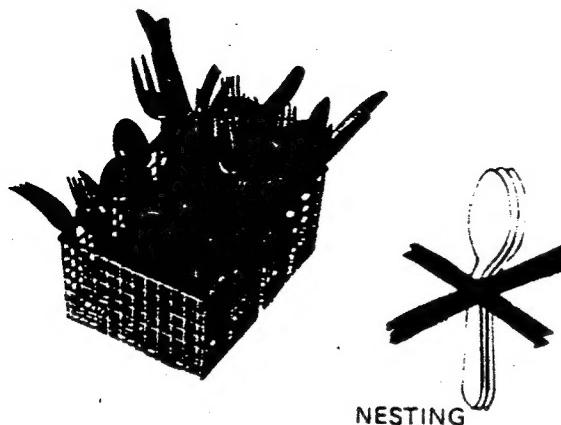


- Place items so open ends face down for cleaning and draining.
- Load glasses in upper rack only. Lower rack is not designed for glasses. Damage may occur.
- China, crystal and other delicate items must not touch other items during dishwasher operation. Damage may occur.



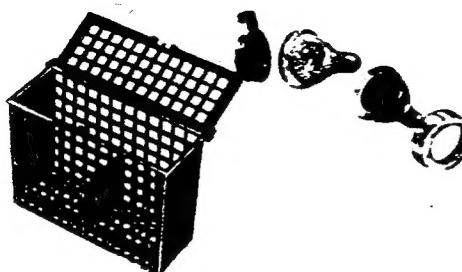
Silverware Basket

- The silverware basket may be loaded either in the lower rack or on the countertop.
- Be sure no items protrude through the holes in the basket or extend high enough to stop the rotation of the spray arms.
- Load sharp items with the points down.
- Load silverware so items are mixed in each section and do not "nest" together. Water spray cannot effectively clean nested items.



Small Items Basket

The small items basket was designed to hold items such as bottle stoppers, small measuring cups, etc. Simply place items in the basket, snap the cover closed, and place the basket in the upper rack. Remove the basket when not in use.



How To Add A Dish During A Cycle

1. To be certain the added item is washed and rinsed, make sure there is a full wash cycle yet to be completed.
2. Unlatch the door to stop the cycle. Wait for the water action to stop.
3. Open the door and add the dish.
4. Close and latch the door. The cycle will resume automatically.

Detergent Dispenser

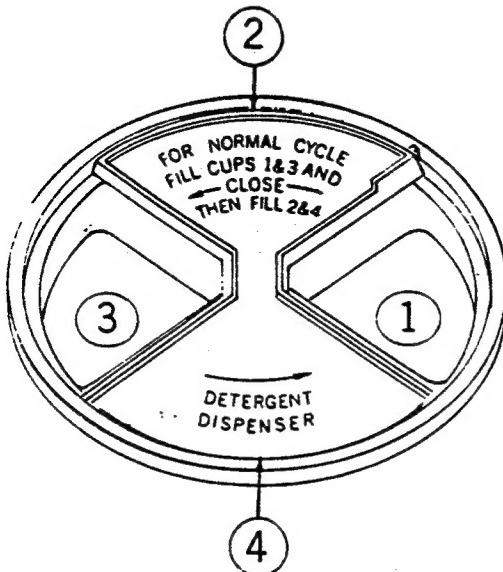
The detergent dispenser will automatically release detergent at the correct time in the cycle.

POTS & PANS, HEAVY WASH, NORMAL WASH, HI-TEMP WASH Cycles

Fill detergent cups 1 and 3. Rotate lid counterclockwise. Fill cups 2 and 4. Cups 1 and 3 should be covered.

SHORT WASH Cycle

Fill detergent cups 1 and 3. Rotate lid counterclockwise. Cups 1 and 3 should be covered.



Rinse Agent Dispenser

The rinse agent dispenser automatically releases a measured amount of wetting agent into the final rinse. A wetting agent prevents water from forming drops that dry into spots...makes water flow off dishes.

The dispenser should be refilled approximately once a month.

1. Turn the dispenser cap $\frac{1}{4}$ turn counter-clockwise and lift out
2. Pour wetting agent until liquid touches the white cross at the bottom of the fill opening.
3. Re-insert cap.



Common Dishwashing Problems and Solutions

PROBLEM	SOLUTION
Dishes Not Clean	Water temperature 140°F. or over? Racks loaded properly? Detergent fresh? Water pressure adequate?
Dishes Not Dry	Water temperature 140°F. or over? Rinse agent dispenser filled? Items loaded to permit proper drainage?
Water Spotting or Filming	Water temperature 140°F. or over? Racks loaded properly? Water too hard? Correct amount of fresh detergent? Rinse agent dispenser filled?
Rust Deposits	Caused by iron in water. For a permanent solution, install iron filter in water line. To remove: 1. Load stained items. DO NOT load silverware or metal items. 2. Run dishes through full cycle using $\frac{1}{2}$ cup citric acid crystals. DO NOT use detergent with treatment. 3. After treatment, wash load with detergent in full cycle.
Aluminum Discoloration	Certain water conditions, in combination with some detergents, may tend to darken aluminum. Scour all surfaces with a soap-filled pad. Try another detergent.
Black Marks on Dishes	Metal items touching or rubbing against dishes during washing. Load such items so they do not touch.
Dish Fading	Decoration which is applied to a glazed surface is most susceptible. Consult with manufacturer. If no information is available, as with old china, test wash a piece several times.

Normal Operation

The following conditions are normal and indicate proper operation.

- A small amount of clean water will remain in the bottom of the tub after each cycle.
- Short time delays occur after cycle is selected and between washes and rinses.
- The plastic float, located in the left front corner of the tub, is a safety device to prevent overfilling. **Never run the dishwasher without the float in place.**



Colored aluminum, cast iron and bone handled items, hand painted china, wooden, plastic and rubber items which are not dishwasher proof, should be hand washed.

User Maintenance Instructions

Cleaning the Pump and Spray Arms

Your dishwasher is designed to flush away all normal food soils that may not have been removed from dishes. However, certain foreign objects, such as fruit pits, bottle caps, etc., may collect in the openings of the pump and should be removed periodically to avoid clogging the drain system.

CAUTION: Allow machine to cool before cleaning!

1. Hold spray arm and turn tower base counter-clockwise to unscrew.
2. Lift out tower and spray arm.
3. Remove any objects that have collected in the pump openings or outlets.
4. Replace spray arm on bearing. Be sure slot in spray arm mates with tab on bearing. Replace tower base and tighten securely. The spray arm and tower should rotate freely.

Drain Air Gap

If the installer of your built-in dishwasher installed an air gap in the drain system, it should be checked periodically to make sure it is clean. Air gaps are usually mounted on the countertop or in the wall above the dishwasher and can be inspected by removing the cover.

Storage or Seasonal Use

If your dishwasher is to remain idle for extended periods of time, do the following:

Freezing Temperatures

1. Shut off water and electrical power.
2. Remove the access panel and disconnect water line on both sides of the inlet valve. Allow to drain.
3. Connect water lines to valve and replace access panel.
4. Pour one (1) quart of non-toxic, propylene glycol anti-freeze into the empty dishwasher.

Normal or Warm Temperatures

The water normally left in the bottom of the tub may evaporate in warm temperatures. The minerals left behind could cause the motor shaft seals to stick together, resulting in motor failure. To prevent the evaporation of the water, follow the instructions as stated in Step 4 under "Freezing Temperatures."

CAUTION: In either case, before you use your dishwasher again, operate it through any full cycle with detergent in both cups.

Care of Surfaces

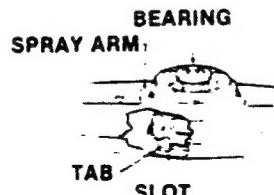
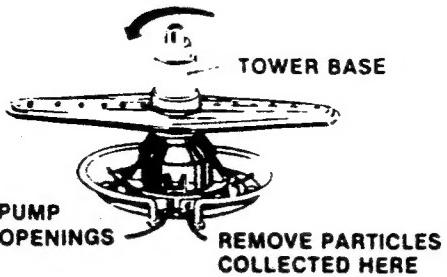
Exterior

Wash with mild, non-abrasive detergent and water. Rinse and dry.

Interior

The interior is self-cleaning with normal use. If hard water causes lime deposit build-up, clean as follows:

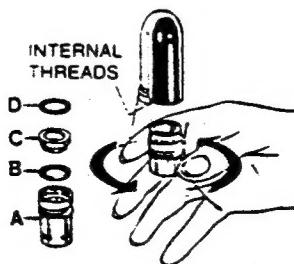
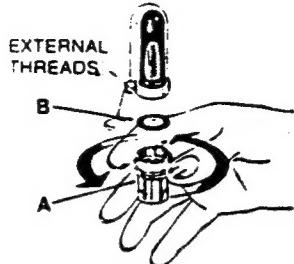
1. Pour two (2) cups vinegar into the empty dishwasher. Do not use detergent.
2. Operate the machine on any full wash cycle.



Water Connection - Portable Models

Before you operate your new portable dishwasher, you will have to attach the furnished aerator adapter to your sink faucet. Proceed as follows:

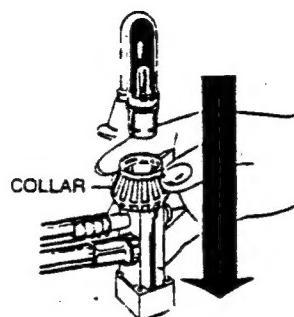
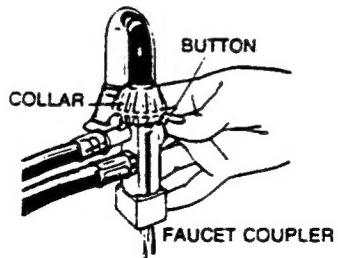
1. Remove the aerator adaptor from the coupler by pressing down on the collar.
2. Unscrew the sink faucet's aerator.
3. Check the faucet spout to see if it is threaded on the outside or inside.
 - a. If faucet threads are external, attach part A and part B of the aerator adapter to the faucet as shown.
 - b. If faucet threads are internal, assemble part C and part B to adapter part A. Screw assembly into faucet spout along with washer part D as shown.



If the faucet is not threaded or if the threads do not match those on the adapter, an adapter kit is available from your dealer.

Disconnect the dishwasher from power and water when cycle is completed.

1. Disconnect the power cord and return it to its storage compartment.
2. Turn off hot water at faucet.
3. Release pressure from the water inlet hose by pressing the red button on side of coupler.
4. Disconnect the faucet coupler by pressing down on the collar.
5. Drain excess water from the coupler and return it to its storage compartment.



CAUTION: A hose that attaches a sink spray can burst if it is installed on the same water line as the dishwasher. It is recommended that the hose be disconnected and the hole plugged.

Conversion Feature

Your portable dishwasher can be converted to a stationary or built-in model. Conversion Kit No. 16002 is available from your dealer. Modification must be performed by qualified service personnel.